



DHIPNVR16-A7

16 CHANNEL 4K IP NVR



16 CHANNELS



HDMI



VGA



PTZ CONTROL



H.265



IPHONE & ANDROID PHONE VIEWING



APPLE MAC VIEWING



USB BACKUP



Key Features:

- H.265 codec recording
- Up to 16 megapixel live viewing & recording
- 16 x POE ports built-in
- Up to 256Mbps incoming bandwidth
- AI PRO technology (support AI by NVR)
- Face detection & recognition
- Human & vehicle classification
- HDMI (4K) & VGA output



SPECIFICATIONS

Model Number	DHIPNVR16-A7
Main Processor	Industrial-grade processor
Operating System	Embedded LINUX
Operating Interface	Web; Local GUI

AI	
AI by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; stereo analysis; people counting; ANPR; heat map
Perimeter Protection	
Perimeter Performance AI (Recorder)	2 channels, 10 IVS rules for each channel
Perimeter Performance AI (Camera)	8 channels
Face Detection	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance By Recorder	1 channel (up to 12 face images/s each channel)
Face Detection Performance By Camera	8 channels
Face Recognition	
Face Database Capacity	Up to 10 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.
Face Recognition Performance of AI by Recorder	8-channel FD (by camera) + FR (by recorder), image stream: 2 face images/s 1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s
Face Recognition Performance of AI by Camera	8 channels
SMD +	
SMD + by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
SMD + by Camera	8 channels

ANPR	
ANPR by Camera	4 channels
Audio and Video	
Access Channel	16 channels
Network Bandwidth	AI disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing AI enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF
Decoding Capability	AI disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps AI enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 12-channel 1080p@30 fps
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
Multi-screen Display	1st Screen: 1/4/8/9/16 - 2nd Screen: 1/4/8/9/16
Third-party Camera Access	ONVIF
Compression Standard	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Audio Compression	G.711a; G.711u; PCM; G726
Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK
Browser	Chrome; IE9 and later; Firefox

Recording Playback	
Multi-channel Playback	Up to 16 channels
Record Mode	General, motion detection; intelligent; alarm
Backup Method	USB device and network
Playback Mode	Instant Playback, general playback, event playback, tag playback, smart playback
Storage	
Disk Group	Yes
Alarm	
General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email
Port	
Audio Input	1-channel RCA
Audio Output	1-channel RCA
Alarm Input	4 channels
Alarm Output	2 channels
HDD Interface	2 SATA ports, up to 16 TB. The maximum HDD capacity varies with environment temperature.
RS-232	1
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at

General	
Power Supply	100–240 VAC, 47-63 Hz
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 130W,the maximum output power of a single port is 25.5W
Net Weight	2.60 kg (5.73 lb)
Gross Weight	3.80 kg (8.38 lb)
Product Dimensions	375.0 mm × 329.3 mm x 53.0 mm (14.76" × 12.96" × 2.09")
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%–93% (RH)
Installation	Desktop
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014

Panels

